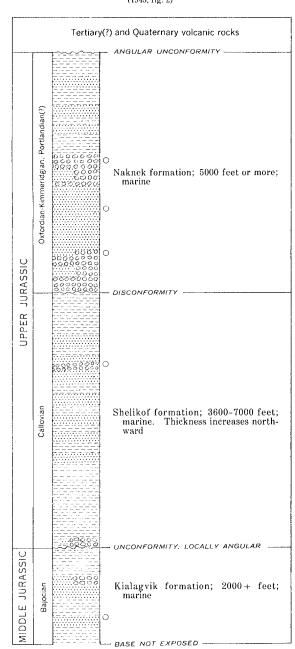
HERENDEEN BAY AREA Modified from Atwood (1911, p. 33-71) and Imlay (1952, p. 978)

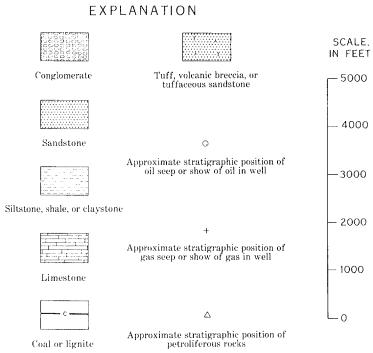
	marine sandstone, shale, and conglomerate leanic rocks; 5000 feet or more
Santonian Santonian	Chignik formation; 800 feet; marine and nonmarine. Overlaps onto Upper Jurassic rocks
CRETACEOUS Santonian Santoni	ANGULAR UNCONFORMITY Herendeen limestone; 800 feet; marine; shell fragments abundant locally
	DISCONFORMITY(?) Staniukovich shale; 1000 feet or more;
JURASSIC	marine, minor sandstone — CONTACT RELATIONSHIP NOT KNOWN ——
UPPER J	Naknek formation; 1100+ feet; marine, predominantly arkosic, minor shale and conglomerate
[二] [] [] [[] [] [] [] [] [] [BASE NOT EXPOSED

CHIGNIK-ANIAKCHAK AREA Modified from Knappen (1929, p. 183-192) and Keller and Cass (1956, pl. 2)

r	ock	s; 5000 feet	t or more - DISCONFORMITY(?)
UPPER CRETACEOUS	Coniacian Santonian		Chignik formation; 450-1600 feet or more; marine and nonmarine △ △ → DISCONFORMITY WITH OVERLAP
			- DISCONFORMITT WITH OVERLAP
UPPER JURASSIC	Oxfordian-Kimmeridgian, Portlandian(?)		Naknek formation; 3900+ feet; marine. △ Increases in thickness to at least 6400 feet, and becomes more arkosic and and conglomeratic to north

KANATAK DISTRICT, WIDE BAY TO MT. PEULIK Modified from Capps (1922, p. 91-107, fig. 5) and Kellum, Daviess, and Swinney (1945, fig. 2)





KANATAK DISTRICT, PUALE BAY TO KEJULIK VALLEY

Compiled from Smith and Baker (1924, p. 169, 178-185) Smith (1926, p. 66-73, fig. 2) and Kellum, Daviess, and Swinney (1945, fig. 2)

		Tertiary(?) and Quaternary volcanic rocks
		+ ANGULAR UNCONFORMITY
SIC	Oxfordian-Kimmeridgian, Portlandian(?)	Naknek formation; minimum 5000 feet; possibly 11,000 feet or more; marine. Interbedded siltstone and sandstone with minor conglomerate
RAS		DISCONFORMITY(?)
UPPER JURASSIC	Callovian	Shelikof formation; 6000 + feet; marine
	SURASSIC	Siltstone, tuffaceous sandstone, and minor limestone; 2300 feet; marine
0 V 0 I I I I I I I I I I I I I I I I I)) (1) (2)	Δ?
ر د	- L	Limestone with minor tuffaceous sand stone, shale; 2200 + feet; marine Basaltic dikes and sills intrude lower part

KATMAI-KAMISHAK ARFA

Lower Tertiary nonmarine conglomerate, sandstone, siltstone, plant-bearing mudstone; volcanic rocks		
-	UNCONFORMITY	
UPPER CRETACEOUS Campanian or Maestrichtian	Kaguyak formation; 4600 + feet; marine	
	DISCONFORMITY	
UPPER JURASSIC	See See	
	CONFORMABLE CONTACT CONFORMABLE CONTACT Chisik conglomerate member of Naknek formation; 1000 feet; marine	

CHINITNA DISTRICT, INISKIN PENINSULA Modified from Kirschner and Minard (1949) and Hartsock (1954)

	s	iltstone, with thin beds of coal ANGULAR UNCONFORMITY
UPPER JURASSIC	Oxfordian-Kimmeridgian, Portlandian(?)	Naknek formation; 6000 feet; marine
	Callovian	Chinitna formation; 1900-2500 feet;
MIDDLE JURASSIC	Bajocian and Bathonian	DISCONFORMITY(7) DISCONFORMITY(7) DISCONFORMITY(7) DISCONFORMITY(7) DISCONFORMITY(7) Tuxedni formation; 6600 feet; marine DISCONFORMITY(7) DISCONFORM
LOWER(?) AND	MIDDLE JURASSIC	Siltstone and sandstone, interbedde with volcanic breccia and tuff in lowe part; several thousand feet; maring Inferred from section penetrated by wells on Iniskin Peninsula and exposed to northeast. This formation believed to be underlain conformable by predominantly volcanic sequence of Early Jurassic and Late Triassi age

MATANUSKA VALLEY, WISHBONE HILL AREA Compiled from Barnes and Payne (1956, p. 10-20) and Martin and Katz (1912,

Eoc	ene	or younger	nonmarine conglomerate, sandstone, and formation)
ە 			-ANGULAR UNCONFORMITY
		30000000000000000000000000000000000000	Wishbone formation; 1850+ feet; non- marine
LOWER TERTIARY	Paleocene or early Eocene	C	— CONFORMABLE CONTACT
LOWE	Paleocen	C	Chickaloon formation; 3000-5000 feet; nonmarine
			CONTACT RELATIONSHIP NOT DE- - FINITELY KNOWN: APPROXIMATE DISCONFORMITY (?)
UPPER CRETACEOUS	Coniacian to Campanian, Maestrichtian(?)		Matanuska formation; 4000 + feet; marine
5	CRETACEOUS(?)	6989888 6989888 6989888 6989888 6999888	Arkose Ridge formation; 2000 + feet; nonmarine. Predominantly arkosic sandstone and conglomerate. Stratigraphic position uncertain; may be younger than Matanuska formation

NELCHINA AREA, COMPOSITE SECTION Compiled by Arthur Grantz, 1955

UPPER CRETACEOUS Conlacian to Campanian, Maestrichtian(?)			Matanuska formation; about 10,000 feet; marine. Basal sandstone becomes progressively younger from south to north. Overlaps onto Lower Jurassic
LOWER ETACEOUS	Neocomian		- ANGULAR UNCONFORMITY Nelchina limestone (calcarenite) and associated conglomerate, sandstone, and shale; 780-1175 feet; marine
PPER JURASSIC Oxfordian-Kimmeridgian,	/	00000 10000000000000000000000000000000	Naknek formation; minimum 3000 feet; possibly 3500 feet or more; marine. Conglomerate units thicken to north
\supset	Callovian		Chinitna formation; minimum 1250 feet; marine. Basal sandstone to north. Overlaps onto Bajocian strata
IURASSIC	Bathonian		Equivalent of upper part of Tuxedni formation; minimum 1200 feet; marine
MIDDLE JURASSIC	Dajociali	7	- CONTACT RELATIONSHIP NOT KNOWN — Equivalent of lower part of Tuxedni formation; minimum 1150 feet; marine UNCONFORMITY; LOCALLY ANGULAR

CHITINA VALLEY, COMPOSITE SECTION

Ter n	tiary narin	7 70lcanic roc 1e sedimenta	cks locally underlain by early Tertiary non- ry rocks
UPPER CRETACEOUS	Coniacian to Campanian, Maestrichtian(?)		Equivalent of the Matanuska formation; 8000 - feet; marine. Overlaps onto Triassic rocks; not observed in contact with Kennicott formation
S		00000000	ANGULAR UNCONFORMITY
LOWER CRETACEOUS	Albian		Kennicott formation; minimum 3200 feet; marine. May include Kotsina conglomerate at base. Overlaps onto Paleozoic rocks
~	힌		
UPPER	JURASSI	0000000	- ANGULAR UNCONFORMITY
OWER(?) ND MIDDLE JURASSIC		, , , , , , , , , , , , , , , , , , ,	Tuffaceous slate and conglomerate; 1000 feet or more; marine. Rests on Triassic rocks
NO NO NO	₹5/		ANGULAN UNGOM ONM
SSIC	Noric		McCarthy shale; 3000 feet; marine
TRIA			
UPPER TE			Nizina limestone; 1100 feet; marine
ñ	Karnic		- CONFORMABLE CONTACT Chitistone limestone; 1900 feet; marine